Name: _____ Date: _____

POLYGONS – Sections 6.1

A **polygon** is a plane geometric figure that meets the following conditions:

1) It is formed by _____ or more segments called _____, such that no two sides with a common endpoint are collinear.

2) Each side intersects exactly _____ other sides, one at each endpoint.

** Each endpoint of a side is called a _____ of the polygon.

CONCAVE vs. CONVEX

A polygon is _____ if no line that contains a side of the polygon contains a point on the interior of the polygon.

IN OTHER WORDS:

EXAMPLE/PICTURE:

Concave polygon –

EXAMPLE:

NAMING A POLYGON

You **name** a polygon by listing its vertices in order (clockwise or counterclockwise).

EXAMPLES:

OTHER DEFINITIONS

Equilateral polygon -

Equiangular polygon -

Regular polygon -

Diagonal -